

August 06, 2019

Cletus Ketter
Veolia North America
6001 W. Pershing Rd
Cicero, IL 60804

RE: Project: BIOSOLIDS MONTHLY
Pace Project No.: 40189283

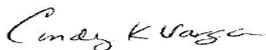
Dear Cletus Ketter:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Cindy Varga
cindy.varga@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jackie Lawless, Veolia North America
Veolia Support Services North



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BIOSOLIDS MONTHLY

Pace Project No.: 40189283

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BIOSOLIDS MONTHLY
Pace Project No.: 40189283

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40189283001	PCD061119	Solid	06/11/19 08:00	06/12/19 08:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BIOSOLIDS MONTHLY

Pace Project No.: 40189283

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40189283001	PCD061119	EPA 6010	TXW	9
		EPA 7471	AJT	1
		ASTM D2974-87	MSC	1
		EPA 160.4	KTS	1
		SM 2540G	KTS	1
		EPA 9012B	DAW	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BIOSOLIDS MONTHLY

Pace Project No.: 40189283

Sample: PCD061119 **Lab ID: 40189283001** Collected: 06/11/19 08:00 Received: 06/12/19 08:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Arsenic	12.9	mg/kg	5.5	1	06/20/19 08:09	06/21/19 09:04	7440-38-2	
Cadmium	2.5	mg/kg	0.55	1	06/20/19 08:09	06/21/19 09:04	7440-43-9	
Chromium	100	mg/kg	1.1	1	06/20/19 08:09	06/21/19 09:04	7440-47-3	
Copper	381	mg/kg	1.6	1	06/20/19 08:09	06/21/19 09:04	7440-50-8	
Lead	87.9	mg/kg	2.2	1	06/20/19 08:09	06/21/19 09:04	7439-92-1	
Molybdenum	12.3	mg/kg	1.1	1	06/20/19 08:09	06/21/19 09:04	7439-98-7	
Nickel	36.4	mg/kg	1.1	1	06/20/19 08:09	06/21/19 09:04	7440-02-0	
Selenium	5.4	mg/kg	4.8	1	06/20/19 08:09	06/21/19 09:04	7782-49-2	
Zinc	711	mg/kg	4.4	1	06/20/19 08:09	06/21/19 09:04	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471						
Mercury	0.48	mg/kg	0.080	1	06/14/19 09:10	06/17/19 08:22	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	9.1	%	0.10	1		06/14/19 12:37		
160.4 Total Volatile Solids		Analytical Method: EPA 160.4						
Total Volatile Solids	51.8	% (w/w)	0.10	1		06/18/19 14:55		
2540G Total Percent Solids		Analytical Method: SM 2540G						
Total Solids	95.0	%	0.10	1		06/13/19 14:57		
9012 Cyanide, Total		Analytical Method: EPA 9012B Preparation Method: EPA 9012B						
Cyanide	3.8	mg/kg	0.58	1	06/24/19 10:45	06/24/19 13:12	57-12-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BIOSOLIDS MONTHLY

Pace Project No.: 40189283

QC Batch: 324465

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Associated Lab Samples: 40189283001

METHOD BLANK: 1883751

Matrix: Solid

Associated Lab Samples: 40189283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	06/17/19 07:54	

LABORATORY CONTROL SAMPLE: 1883752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.84	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1883753 1883754

Parameter	Units	40188510005		MS		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury	mg/kg	0.069	1	1	1	1.1	1.1	101	101	85-115	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BIOSOLIDS MONTHLY
Pace Project No.: 40189283

QC Batch: 324913 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40189283001

METHOD BLANK: 1886048 Matrix: Solid
Associated Lab Samples: 40189283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	06/21/19 08:44	
Cadmium	mg/kg	<0.13	0.50	06/21/19 08:44	
Chromium	mg/kg	0.31J	1.0	06/21/19 08:44	
Copper	mg/kg	<0.44	1.5	06/21/19 08:44	
Lead	mg/kg	<0.60	2.0	06/21/19 08:44	
Molybdenum	mg/kg	<0.14	1.0	06/21/19 08:44	
Nickel	mg/kg	<0.23	1.0	06/21/19 08:44	
Selenium	mg/kg	<1.3	4.4	06/21/19 08:44	
Zinc	mg/kg	<1.0	4.0	06/21/19 08:44	

LABORATORY CONTROL SAMPLE: 1886049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	48.7	97	80-120	
Cadmium	mg/kg	50	50.1	100	80-120	
Chromium	mg/kg	50	51.0	102	80-120	
Copper	mg/kg	50	50.4	101	80-120	
Lead	mg/kg	50	49.8	100	80-120	
Molybdenum	mg/kg	50	48.0	96	80-120	
Nickel	mg/kg	50	50.3	101	80-120	
Selenium	mg/kg	50	50.5	101	80-120	
Zinc	mg/kg	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1886050 1886051

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40189450001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic	mg/kg	5.4J	60	60.3	60.7	54.4	92	81	75-125	11	20	
Cadmium	mg/kg	<0.16	60	60.3	57.7	54.7	96	91	75-125	5	20	
Chromium	mg/kg	16.1	60	60.3	76.4	79.7	100	106	75-125	4	20	
Copper	mg/kg	13.0	60	60.3	71.7	72.7	98	99	75-125	1	20	
Lead	mg/kg	9.2	60	60.3	64.9	64.2	93	91	75-125	1	20	
Molybdenum	mg/kg	0.29J	60	60.3	53.2	49.9	88	82	75-125	6	20	
Nickel	mg/kg	15.5	60	60.3	71.6	76.1	94	101	75-125	6	20	
Selenium	mg/kg	<1.6	60	60.3	54.9	53.7	91	89	75-125	2	20	
Zinc	mg/kg	47.0	60	60.3	109	108	103	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: BIOSOLIDS MONTHLY

Pace Project No.: 40189283

QC Batch: 324542

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40189283001

SAMPLE DUPLICATE: 1884057

Parameter	Units	40189207007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.7	8.9	3	10	

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QUALITY CONTROL DATA

Project: BIOSOLIDS MONTHLY

Pace Project No.: 40189283

QC Batch: 324785	Analysis Method: EPA 160.4
QC Batch Method: EPA 160.4	Analysis Description: 160.4 Total Volatile Solids
Associated Lab Samples: 40189283001	

METHOD BLANK: 1885259 Matrix: Solid
Associated Lab Samples: 40189283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Volatile Solids	% (w/w)	<30.0	30.0	06/18/19 14:55	

LABORATORY CONTROL SAMPLE: 1885260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Volatile Solids	% (w/w)	471	460	98	80-120	

SAMPLE DUPLICATE: 1885261

Parameter	Units	40189283001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Volatile Solids	% (w/w)	51.8	51.9	0	10	

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QUALITY CONTROL DATA

Project: BIOSOLIDS MONTHLY

Pace Project No.: 40189283

QC Batch: 324331

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: 2540G Total Solids

Associated Lab Samples: 40189283001

METHOD BLANK: 1883129

Matrix: Solid

Associated Lab Samples: 40189283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	<30.0	30.0	06/13/19 14:56	

LABORATORY CONTROL SAMPLE: 1883130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	717	742	104	80-120	

SAMPLE DUPLICATE: 1883131

Parameter	Units	40189283001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	95.0	94.6	0	10	

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QUALITY CONTROL DATA

Project: BIOSOLIDS MONTHLY
Pace Project No.: 40189283

QC Batch: 325368	Analysis Method: EPA 9012B
QC Batch Method: EPA 9012B	Analysis Description: 9012 Cyanide
Associated Lab Samples: 40189283001	

METHOD BLANK: 1889550 Matrix: Solid
Associated Lab Samples: 40189283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/kg	0.12J	0.40	06/24/19 13:11	

LABORATORY CONTROL SAMPLE: 1889551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	3	3.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1889552 1889553

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		10479068005 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Cyanide	mg/kg	1.1	2.6	2.5	2.9	3.0	70	75	80-120	4	20	M0	

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QUALIFIERS

Project: BIOSOLIDS MONTHLY

Pace Project No.: 40189283

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 40189283

[1] Revised report is to include chromium.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BIOSOLIDS MONTHLY

Pace Project No.: 40189283

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189283001	PCD061119	EPA 3050	324913	EPA 6010	325203
40189283001	PCD061119	EPA 7471	324465	EPA 7471	324551
40189283001	PCD061119	ASTM D2974-87	324542		
40189283001	PCD061119	EPA 160.4	324785		
40189283001	PCD061119	SM 2540G	324331		
40189283001	PCD061119	EPA 9012B	325368	EPA 9012B	325416

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

50189283

Section A

Required Client Information:

Required Project Information:

Invoice Information:

Section B

Section C

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. IDs MUST BE UNIQUE (A-Z, 0-9 / , -)	MATRIX CODE	SAMPLE TYPE G+GRAB C-COMP	COLLECTED			SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives	
				DATE	TIME	DATE			TIME	Unpreserved
1	PCD061119	SL		6/11/19	8:AM	6/11/19	8:AM	1	1	
2	PCD061119	SL		6/11/19	8:AM	6/11/19	8:AM	1	1	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

Additional Comments:

* Pace Courier to drop off at sub lab

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Y.M. Anderson	6/11/19	10:55 AM	KATHY ANDERSON	6/11/19	10:58	Y/N
KATHY ANDERSON	6/11/19	17:00	C.S. Leistikos	6/11/19		Y/N
C.S. Leistikos	6/12/19	09:55	[Signature]	6/12/19	09:55	3

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Harcy Maxwell

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 06-11-2019

Temp in °C: _____

Received on Ice: Y/N

Custody Sealed Cooler: Y/N

Samples Intact: Y/N

REGULATORY AGENCY

___ NIDES ___ GROUND WATER ___ DRINKING WATER

___ UST ___ RCRA ___ OTHER X

SITE LOCATION

___ OH ___ SC ___ WI ___ OTHER

Requested: SM 2540B TS
822D FECAL COLIFORM
6010 METALS - As,Cd,Cu,Pb,Mn, Ni,Se,Zn
7471 MERCURY
EPA 180.4 TSS
9012 Cyanide

Residual Chlorine (Y/N): PP

Pace Project Number: 006

Lab I.D.:

E-File (ALL 0020rev. 3.31Mar05), 13Jun2005



SUBURBAN LABORATORIES, Inc.

CHAIN OF CUSTODY RECORD

Electronic Version

40189283

1950 S. Batavia Ave. Geneva, IL 60134

Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS

www.suburbanlabs.com

Company Name: Pace Analytical
Company Address: 1241 Bellevue St
City: Green Bay State: WI Zip: 54302

Phone: 920-321-9455 Fax: [] Fax Report
Email Address: cindy.varga@pacelabs.com [x] Email Report

Project ID / Location: Veolia Biosolids Weekly/Cicero IL
Project Manager (Report to): Cindy Varga

Sample Collector(s): Harry Maxwell

SAMPLE IDENTIFICATION (Please use 1 line per container type)

1 PDB06119 6/11/19 820 SL

2

3

4

5

6

7

8

9

10

11

12

TURNAROUND TIME REQUESTED
[x] Normal [] RUSH*
*Additional Rush Charges Approved

*Date & Time Needed:
Normal TAT is 5-7 work days for most work. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program (Required):
[] LUST [] SRP [] SDWA
[] 503 Sludge [] NPDES [] MWRDGC
[] Disposal [] Other
*Please specify in comment section below.

COLLECTION DATE: 6/11/19 TIME: 820

MATRIX: SL

GRAB/COMP: GRAB/1

CONTAINERS: 120 ml sterile

PRESERVATIVE: Nathiosulfate

ANALYSIS & METHOD REQUESTED: 9222D Fecal Coliform

Enter an "X" in box below for request

[x]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

[]

Shipping Method: [] Level 1 [] Level 2 [] Level 3

LAB USE ONLY

Sample containers supplied by customer? [] Yes [] No

Temperature of Received Samples: [] °C [] °F

Samples received within 24 hours of collection? [] Yes [] No

R Condition Split LAB #

[] [] []

[] [] []

[] [] []

[] [] []

[] [] []

[] [] []

[] [] []

[] [] []

[] [] []

[] [] []

COMMENTS & SPECIAL INSTRUCTIONS:

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H₂SO₄, HCl, HNO₃, Methanol (MeOH), NaOH, Sodium Bisulfate (NaB), NaThio

1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By: [Signature] Date: 6/11/19

2. Relinquished By: [] Date: []

3. Relinquished By: [] Date: []

4. Relinquished By: [] Date: []

Received By: [Signature] Date: 6/11/19

Received By: [] Date: []

Submission of samples subject to Terms and Conditions on back. Rev 20/1/05 Please fill out this form completely, print, sign & submit with samples. Keep a copy for your records.

Client Name: Verlic

Project # 40189273

Sample Preservation Receipt Form

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 205
Green Bay, WI 54307

Pace Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (ml)						
													BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N
001	AG1U											2.5 / 5 / 10						
002	AG1H											2.5 / 5 / 10						
003	AG4S											2.5 / 5 / 10						
004	AG4U											2.5 / 5 / 10						
005	AG5U											2.5 / 5 / 10						
006	AG2S											2.5 / 5 / 10						
007	BG3U											2.5 / 5 / 10						
008												2.5 / 5 / 10						
009												2.5 / 5 / 10						
010												2.5 / 5 / 10						
011												2.5 / 5 / 10						
012												2.5 / 5 / 10						
013												2.5 / 5 / 10						
014												2.5 / 5 / 10						
015												2.5 / 5 / 10						
016												2.5 / 5 / 10						
017												2.5 / 5 / 10						
018												2.5 / 5 / 10						
019												2.5 / 5 / 10						
020												2.5 / 5 / 10						

Exceptions for preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____

Headspace in VOA Vials (<6mm): Yes No N/A *If yes look in headspace column

Pace Lab #	Description	Material	Volume	Notes
AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4	
DG9A	40 mL amber ascorbic	VG9U	40 mL clear vial unpres	
DG9T	40 mL amber Na Thio	VG9H	40 mL clear vial HCL	
VG9U	40 mL clear vial unpres	VG9M	40 mL clear vial MeOH	
VG9H	40 mL clear vial HCL	VG9D	40 mL clear vial DI	
JGFU	4 oz amber jar unpres	SP5T	120 mL plastic Na Thiosulfate	
WGFU	4 oz clear jar unpres	ZPLC	ziploc bag	
WPFU	4 oz plastic jar unpres	GN:		

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Verline
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____

WO# : 40189283



40189283

Tracking #: _____
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other _____
Thermometer Used SR-30 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 3 /Corr: 3
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
 Date: 6/12/19
 Initials: _____

Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: _____	8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>	
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: CR **Date:** 6/12/19



June 24, 2019

Cindy Varga
Pace Analytical - WI
1241 Bellevue Street Suite 9
Green Bay, WI 54302

Workorder: 1906704

TEL: (920) 469-2436

FAX:

RE: Veolia Biosolids- Cicero IL

Dear Cindy Varga:

Suburban Laboratories, Inc. received 1 sample(s) on 6/11/2019 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Reid Westfall
Project Manager
(708) 544-3260 ext 217
reid@suburbanlabs.com





Client: Pace Analytical - WI

Date: June 24, 2019

Project: Veolia Biosolids- Cicero IL

PO #:

WorkOrder: 1906704

QC Level:

Temperature of samples upon receipt at SLI: 13.6 C

Chain of Custody #:

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:



Qualifiers:

- * /x Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- C Value is below Minimum Concentration Limit
- c Analyte not in SLI scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compounds
- ND Not Detected at the Reporting Limit
- P Present
- Q Accreditation is not available from Wisconsin
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- T Analyte detected in sample trip blank
- V EPA requires field analysis/filtration. Lab analysis would be considered past hold time.



SUBURBAN LABORATORIES, Inc.
 1950 S. Batavia Ave. Geneva, IL 60134
 Tel. 708.544.3260 Fax: 708.544.8587

CHAIN OF CUSTODY RECORD
 Toll Free: 800.783.LABS
 www.suburbanlabs.com

Electronic Version
 Page 5 of 5

Company Name: **Pace Analytical**
 Company Address: **1241 Bellevue St**
 City: **Green Bay** State: **WI** Zip: **54302**
 Phone: **920-321-9455** Fax: Fax Report
 Email Address: **cindy.varga@pacelabs.com** Email Report

TURNAROUND TIME REQUESTED
 Normal RUSH*
*Additional Rush Charges Approved.
 *Date & Time Needed:
 Normal TAT is 5-7 work days for most work. Rush work must be pre-approved and additional charges apply.

ANALYSIS & METHOD REQUESTED
 Enter an "X" in box below for request

Shipping Method:
 QC Reporting Level: 1 2 3
 LAB USE ONLY
 SLI Order No.: **1906704**
 Sample containers supplied by customer? Yes No
 Temperature of Received Samples: **34** °C
 Samples received within 24 hours of collection? Yes No

Project ID / Location: **Veolia Biosolids Weekly/Cicero IL**
 Project Manager (Report to): **Cindy Varga**
 Sample Collector(s): **Harvey Maxwell**

Specify Regulatory Program: None/Trfo only
 LUST SRP SDWA
 503 Sludge NPDES MWRDGC
 Disposal Other *Please specify in comment section below.

9222D Fecal Coliform

Condition: **1A** LAB #

SAMPLE IDENTIFICATION <small>(please use 1 line per container type)</small>	COLLECTION		MATRIX	GRAB/COMP.	Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED	R	Condition	Split	LAB #
	DATE	TIME										
1 PCDOG119	6/11/19	8:00	SL	GRAB/1	1	120 ml sterile	Nathiosulfate	X				1A
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

MATRIX: Drinking Water (DWA), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H₂SO₄, HCl, HNO₃, Methanol (MeOH), NaOH, Sodium Bisulfate (Nab), NaTrio

COMMENTS & SPECIAL INSTRUCTIONS:
 CONDITION CODES:
 1. Improper/damaged container/cap
 2. Improper preservation
 3. Insufficient sample volume
 4. Headspace/air bubbles for VOCs
 5. Received past holding time
 6. Received frozen
 7. Label conflicts with COC

1. Relinquished By: **Harvey Maxwell** Date: **6/11/19** Time: **12:30**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____
 4. Relinquished By: _____ Date: _____ Time: _____
 5. Relinquished By: _____ Date: _____ Time: _____
 6. Relinquished By: _____ Date: _____ Time: _____
 7. Relinquished By: _____ Date: _____ Time: _____

Received By: Ice Time: _____

Submission of samples subject to Terms and Conditions on back. Rev. 2010/05 Please fill out this form completely, print, sign & submit with samples. Keep a copy for your records.